



# CONTENTS

SPONTANEOUSLY FISSIONING ISOMERS, <i>R. Vandenbosch</i>	1
ELEMENT PRODUCTION IN THE EARLY UNIVERSE, <i>David N. Schramm and Robert V. Wagoner</i>	37
HYBRID BUBBLE CHAMBER SYSTEMS, <i>J. Ballam and R. D. Watt</i>	75
CHEMISTRY OF THE TRANSACTINIDE ELEMENTS, <i>O. Lewin Keller, Jr. and Glenn T. Seaborg</i>	139
THE WEAK NEUTRAL CURRENT AND ITS EFFECTS IN STELLAR COLLAPSE, <i>Daniel Z. Freedman, David N. Schramm, and David L. Tubbs</i>	167
NEUTRINO SCATTERING AND NEW-PARTICLE PRODUCTION, <i>D. Cline and W. F. Fry</i>	209
K-SHELL IONIZATION IN HEAVY-ION COLLISIONS, <i>W. E. Meyerhof and Knud Taulbjerg</i>	279
DELAYED PROTON RADIOACTIVITIES, <i>Joseph Cerny and J. C. Hardy</i>	333
HEAVY-ION ACCELERATORS, <i>Hermann A. Grunder and Frank B. Selph</i>	353
PSIONIC MATTER, <i>W. Chinowsky</i>	393
DAMPED HEAVY-ION COLLISIONS, <i>W. U. Schröder and J. R. Huizenga</i>	465
INDEXES	
AUTHOR INDEX	548
CUMULATIVE INDEX OF CONTRIBUTING AUTHORS, VOLUMES 18-27	563
CUMULATIVE INDEX OF CHAPTER TITLES, VOLUMES 18-27	565